

(FILE 'HOME' ENTERED AT 12:54:37 ON 22 AUG 2003)

FILE 'REGISTRY' ENTERED AT 12:54:50 ON 22 AUG 2003

L1	STRUCTURE UPLOADED
L2	0 S L1 SSS SAM
L3	0 S L1 SSS FULL
L4	STRUCTURE UPLOADED
L5	0 S L4 SSS SAM
L6	0 S L4 SSS FULL
L7	STRUCTURE UPLOADED
L8	0 S L7 SSS SAM
L9	9 S L7 SSS FULL

FILE 'CAPLUS, MEDLINE, USPATFULL' ENTERED AT 13:01:27 ON 22 AUG 2003

L10	4 S L9
-----	--------

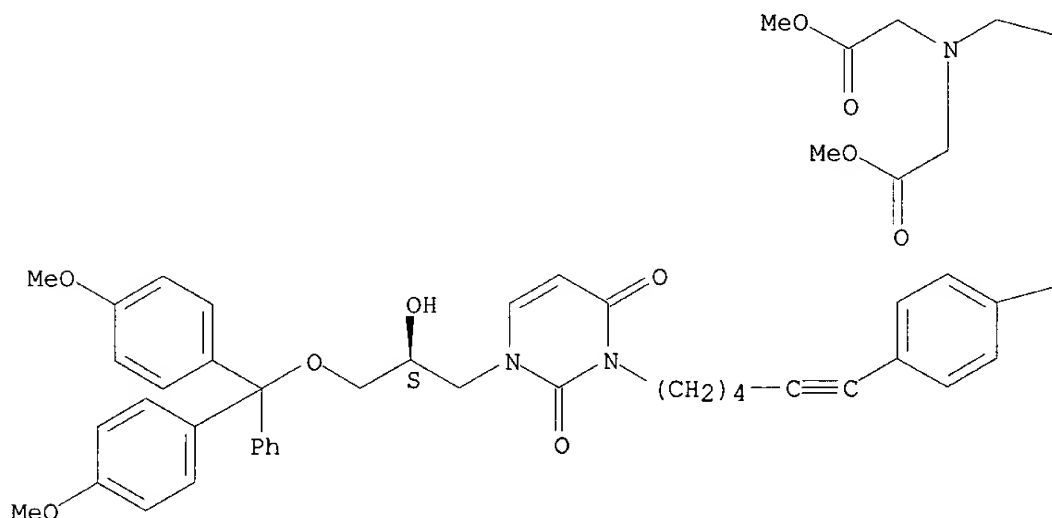
L10 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2003:356095 CAPLUS  
 DOCUMENT NUMBER: 138:338411  
 TITLE: Preparation of oligonucleotide labeling reactants based on acyclic nucleosides and conjugates derived thereof  
 INVENTOR(S): Hovinen, Jari  
 PATENT ASSIGNEE(S): Wallac Oy, Finland  
 SOURCE: Eur. Pat. Appl., 31 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

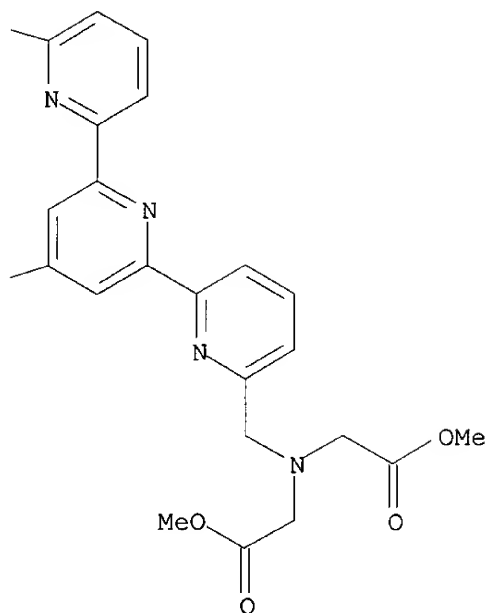
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1308452	A2	20030507	EP 2002-396153	20021010
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2003118999	A1	20030626	US 2001-985454	20011102
PRIORITY APPLN. INFO.:			US 2001-985454	A 20011102

IT **518027-22-0P 518027-23-1P**  
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. of oligonucleotide labeling reactants based on acyclic nucleosides and conjugates derived thereof)  
 RN 518027-22-0 CAPLUS  
 CN Glycine, N,N'-[[4'-[4-[6-[3-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-hydroxypropyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

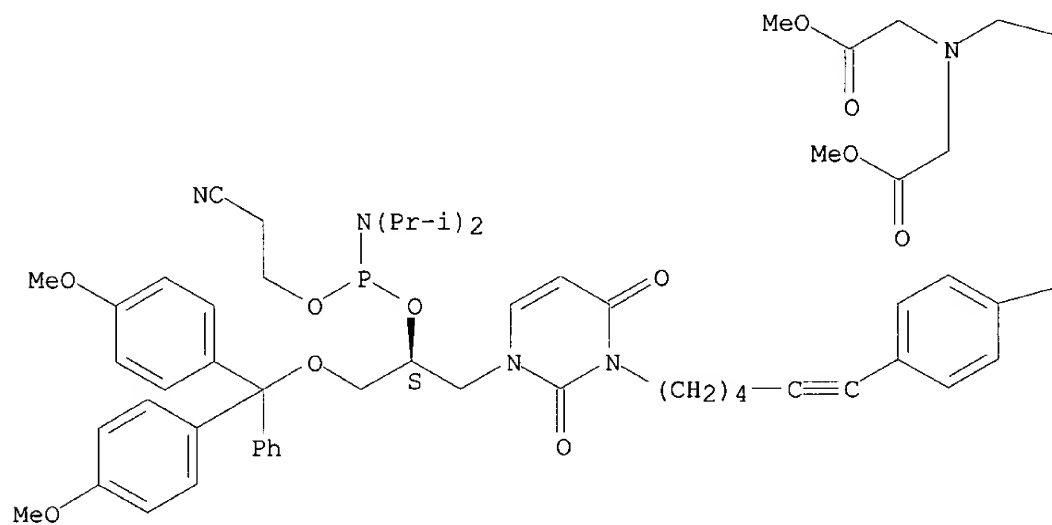


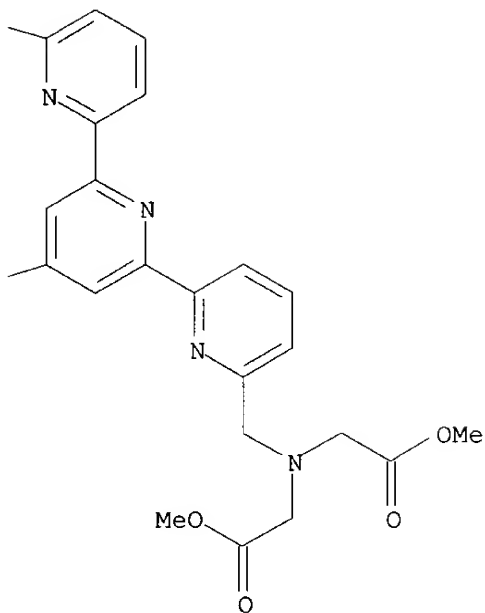


RN 518027-23-1 CAPLUS

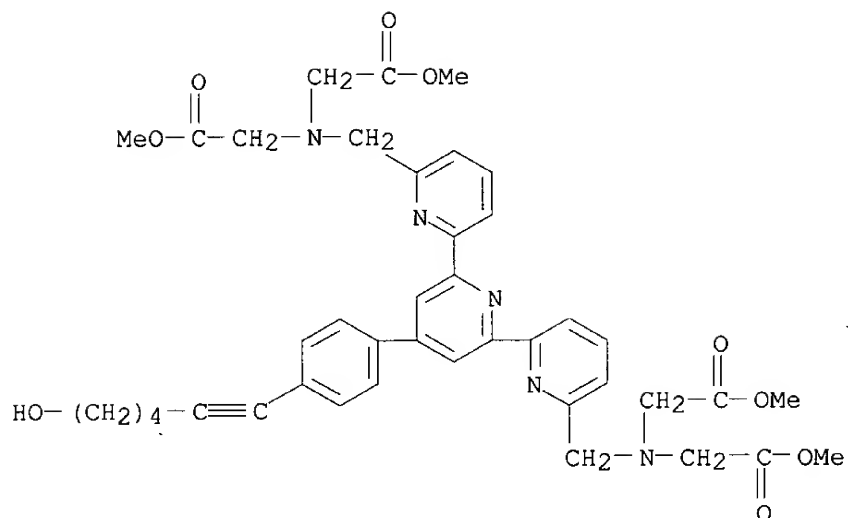
CN Glycine, N,N'-[[4'-[4-[6-[3-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-[[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]oxy]propyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.





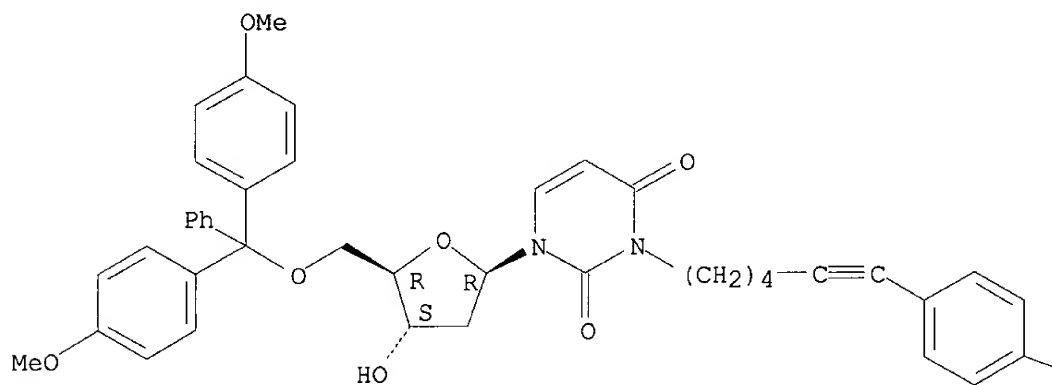
L10 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2001:490069 CAPLUS  
 DOCUMENT NUMBER: 135:242452  
 TITLE: Versatile Strategy for Oligonucleotide Derivatization.  
 Introduction of Lanthanide(III) Chelates to  
 Oligonucleotides  
 AUTHOR(S): Hovinen, Jari; Hakala, Harri  
 CORPORATE SOURCE: PerkinElmer Life Sciences Wallac Oy, Turku, FIN-20101,  
 Finland  
 SOURCE: Organic Letters (2001), 3(16), 2473-2476  
 CODEN: ORLEF7; ISSN: 1523-7060  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 135:242452  
 IT **358978-79-7P 358978-80-0P 358978-84-4P**  
**358978-85-5P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (versatile strategy for oligonucleotide derivatization introduction of  
 lanthanide chelates to oligonucleotides)  
 RN 358978-79-7 CAPLUS  
 CN Glycine, N,N'-[[4'-[4-(6-hydroxy-1-hexynyl)phenyl][2,2':6',2''-  
 terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-,  
 dimethyl ester (9CI) (CA INDEX NAME)

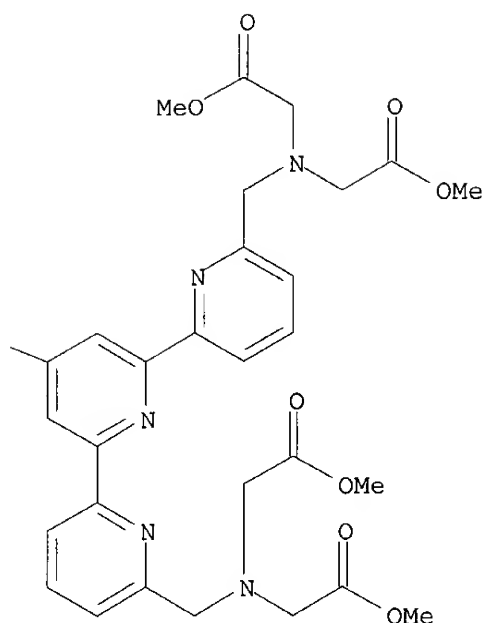


RN 358978-80-0 CAPLUS  
 CN Glycine, N,N'-[[4'-[4-[6-[3-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy-.beta.-D-erythro-pentofuranosyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

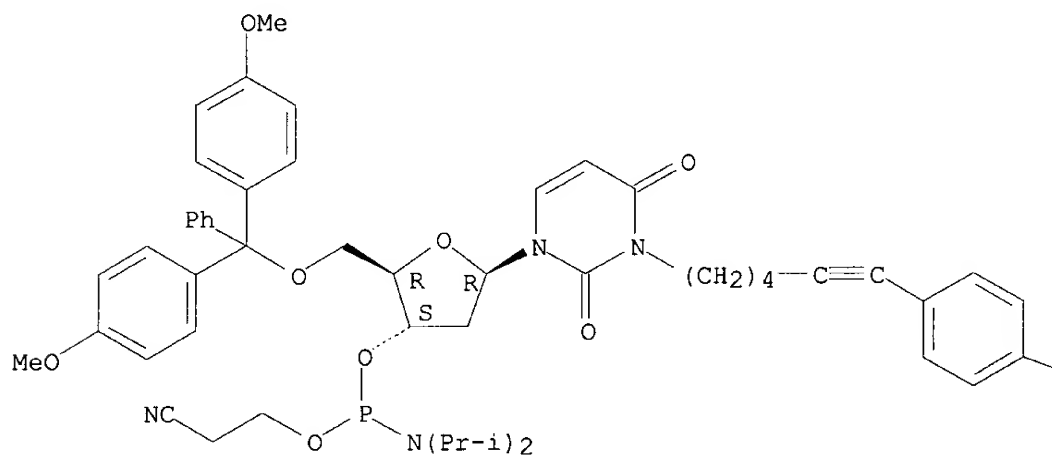


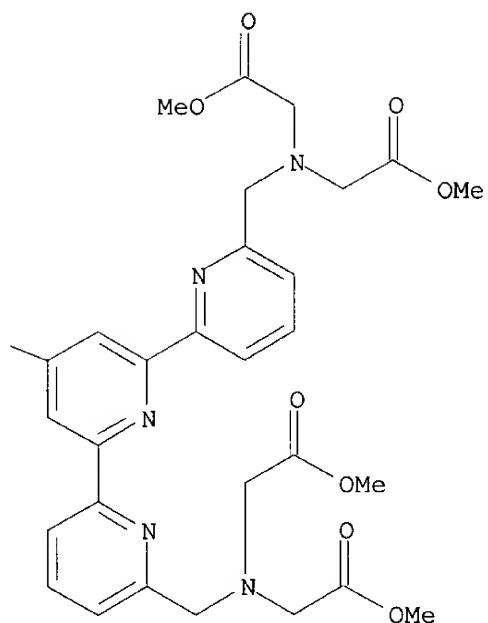


RN 358978-84-4 CAPLUS

CN Glycine, N,N'-[[4'-[4-[6-[3-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-3-O-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-deoxy-.beta.-D-erythro-pentofuranosyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

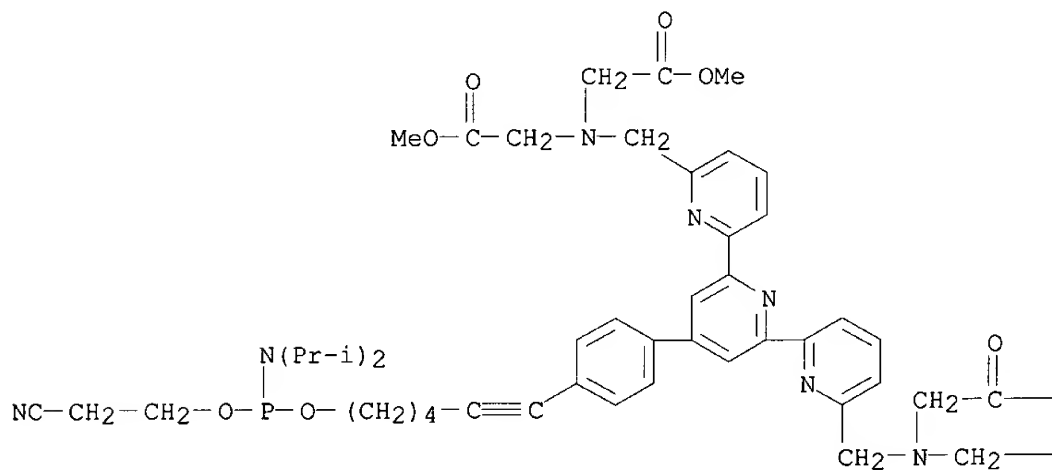
Absolute stereochemistry.



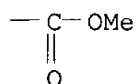


RN 358978-85-5 CAPLUS

CN Glycine, N,N'-[[[4'-[4-[6-[[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]oxy]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)



— OMe



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2000:553830 CAPLUS

DOCUMENT NUMBER: 133:304860

TITLE: Synthesis and spectral properties of a new luminescent europium(III) terpyridyl chelate

AUTHOR(S): Cooper, Michael E.; Sammes, Peter G.

CORPORATE SOURCE: Amersham Pharmacia Biotech, Whitechurch, Cardiff, CF14 7YT, UK

SOURCE: Perkin 2 (2000), (8), 1695-1700

CODEN: PRKTFO

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 300775-34-2P 300775-36-4P 300775-38-6P

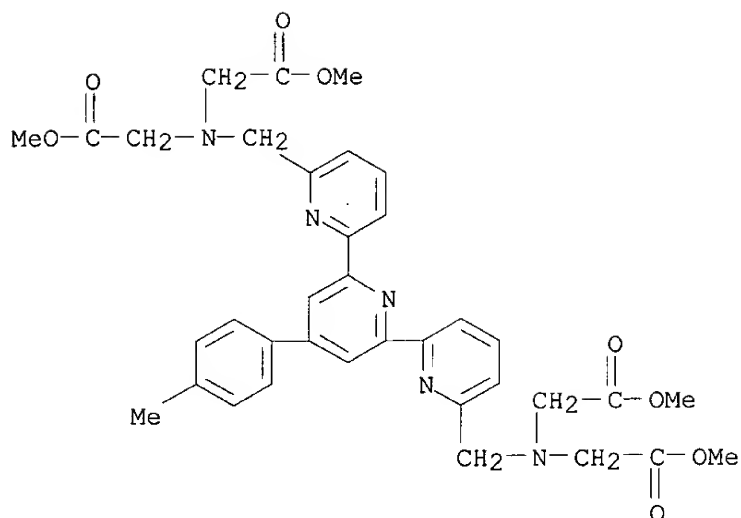
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate product in prepn. of luminescent europium terpyridylbis(methylamine)tetraacetate complex)

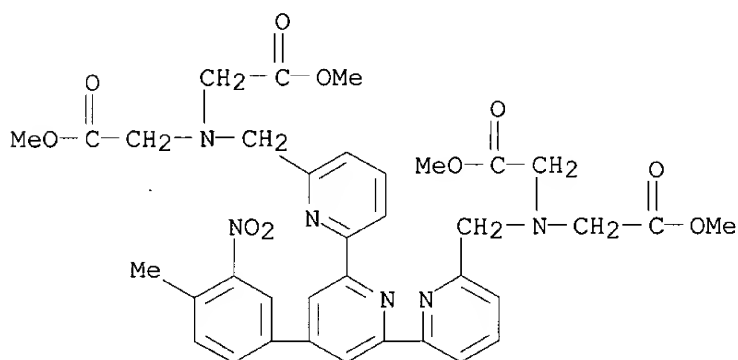
RN 300775-34-2 CAPLUS

CN Glycine, N,N'-[[4'-(4-methylphenyl)[2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

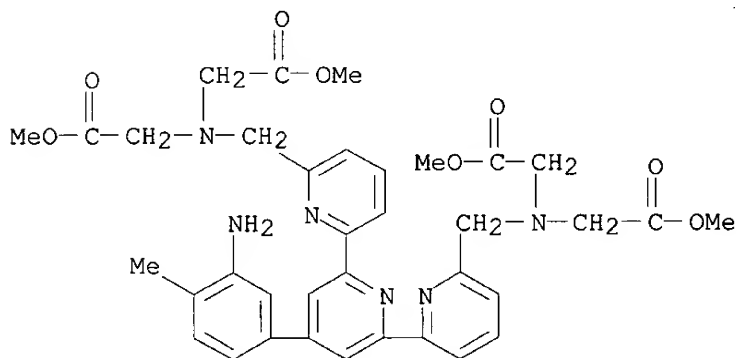




RN 300775-36-4 CAPLUS  
 CN Glycine, N,N'-[[4'-(4-methyl-3-nitrophenyl)[2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI)  
 (CA INDEX NAME)



RN 300775-38-6 CAPLUS  
 CN Glycine, N,N'-[[4'-(3-amino-4-methylphenyl)[2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI)  
 (CA INDEX NAME)



REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS

L10 ANSWER 4 OF 4 USPATFULL on STN

ACCESSION NUMBER: 2003:173155 USPATFULL

TITLE: Oligonucleotide labeling reactants based on  
acyclonucleosides and conjugates derived thereof

INVENTOR(S): Hovinen, Jari, Raisio, FINLAND

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003118999	A1	20030626
APPLICATION INFO.:	US 2001-985454	A1	20011102 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	James C. Lydon, Attorney at Law, Suite 100, 100 Daingerfield Road, Alexandria, VA, 22314		
NUMBER OF CLAIMS:	17		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	1 Drawing Page(s)		
LINE COUNT:	871		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 518027-22-0P 518027-23-1P

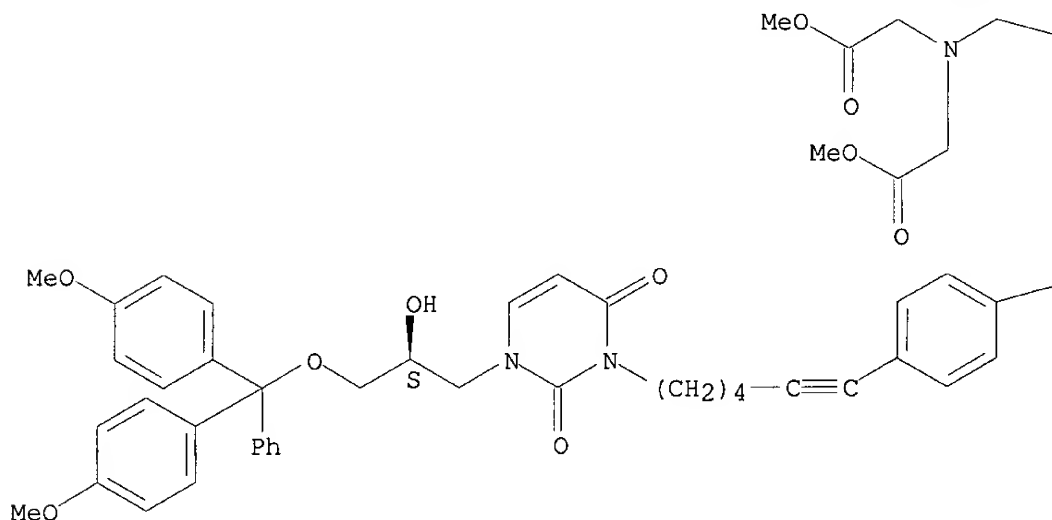
(prepn. of oligonucleotide labeling reactants based on acyclic  
nucleosides and conjugates derived thereof)

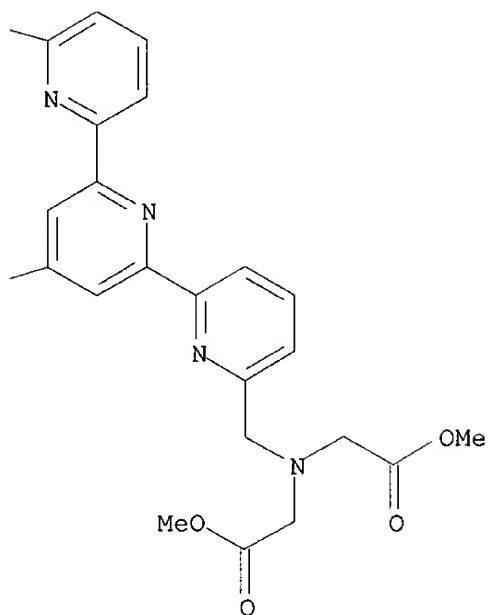
RN 518027-22-0 USPATFULL

CN Glycine, N,N'-[[4'-[4-[6-[3-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-  
hydroxypropyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-  
hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-  
(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

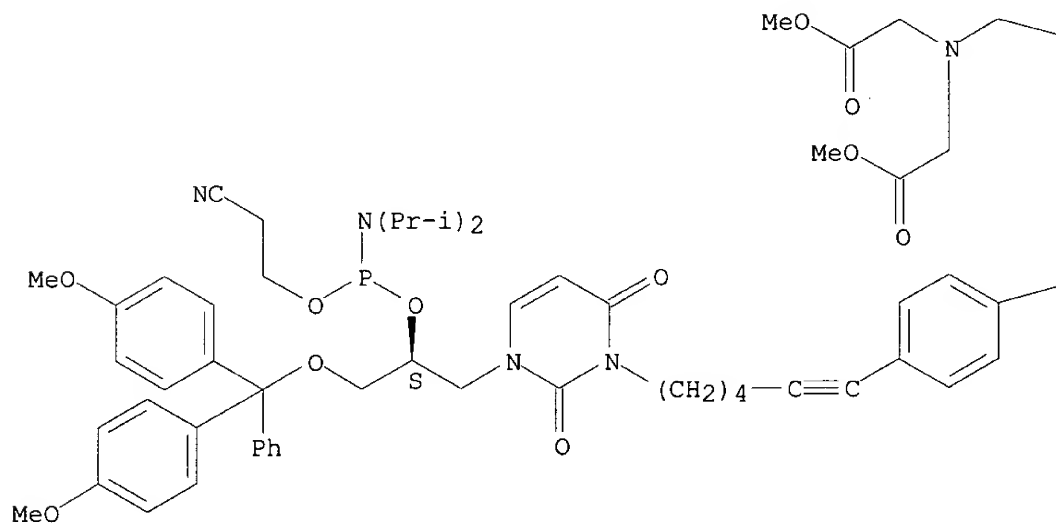


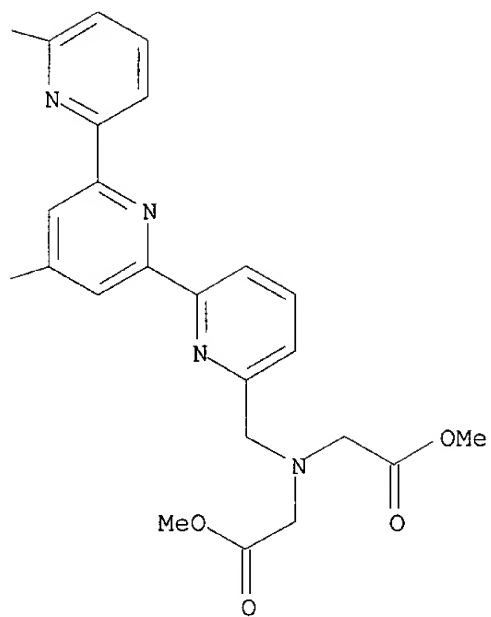


RN 518027-23-1 USPATFULL

CN Glycine, N,N'-[[4'-[4-[6-[3-[(2S)-3-[bis(4-methoxyphenyl)phenylmethoxy]-2-  
[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]oxy]propyl]-3,6-  
dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-  
terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-,  
dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.





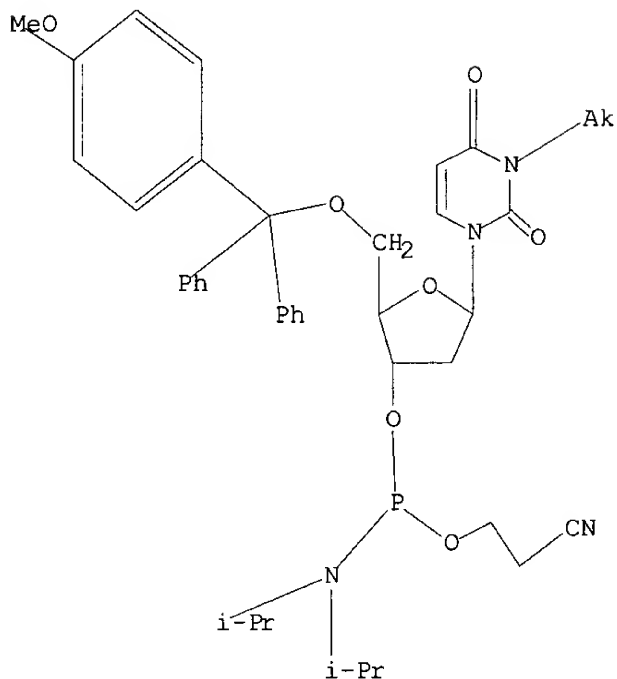
=>

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 14:22:33 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 134 TO ITERATE

100.0% PROCESSED 134 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1986 TO 3374

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 14:22:41 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 3041 TO ITERATE

100.0% PROCESSED 3041 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

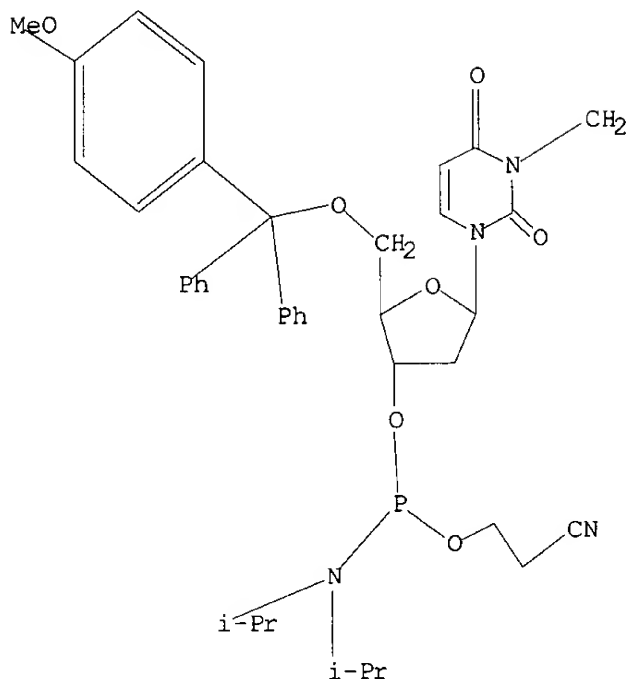
L3 0 SEA SSS FUL L1

=>

Uploading 09847384-7.str

L4 STRUCTURE UPLOADED

=> d 14  
L4 HAS NO ANSWERS  
L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 14 sss sam  
SAMPLE SEARCH INITIATED 14:24:14 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 2 TO 124  
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4

=> s 14 sss full  
FULL SEARCH INITIATED 14:24:21 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 67 TO ITERATE

100.0% PROCESSED 67 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L6 0 SEA SSS FUL L4

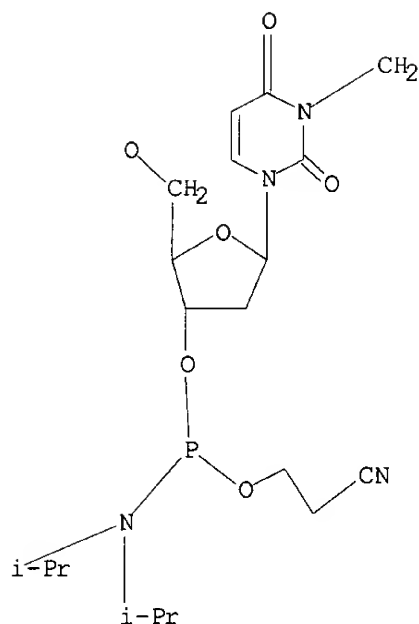
=>  
Uploading 09847384-8.str

L7 STRUCTURE UPLOADED

=> d 17  
L7 HAS NO ANSWERS

L7

STR



Structure attributes must be viewed using STN Express query preparation.

=> s l7 sss sam

SAMPLE SEARCH INITIATED 14:27:21 FILE 'REGISTRY'  
 SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS  
 SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS: 2 TO 124  
 PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> s l7 sss full

FULL SEARCH INITIATED 14:27:27 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 82 TO ITERATE

100.0% PROCESSED 82 ITERATIONS  
 SEARCH TIME: 00.00.01

20 ANSWERS

L9 20 SEA SSS FUL L7

=> file caplus medline uspatfull

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY

SESSION

447.25

447.46

FILE 'CAPLUS' ENTERED AT 14:28:00 ON 22 AUG 2003  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
 COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 14:28:00 ON 22 AUG 2003

FILE 'USPATFULL' ENTERED AT 14:28:00 ON 22 AUG 2003  
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s 19

L10 16 L9

=> s 110 and label

L11 0 L10 AND LABEL

=> s 110 and DMTr

L12 0 L10 AND DMTR

=> s 110 and dimethoxytrityl

L13 3 L10 AND DIMETHOXYTRITYL

=> d 113 1-3 ibib abs hitstr

L13 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2003:227376 CAPLUS

DOCUMENT NUMBER: 138:255457

TITLE: Thymidine derivatives having an intercalator at N3 position of thymine base and use in antisense oligonucleotides

INVENTOR(S): Ono, Akira

PATENT ASSIGNEE(S): Yamasa Shoyu Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

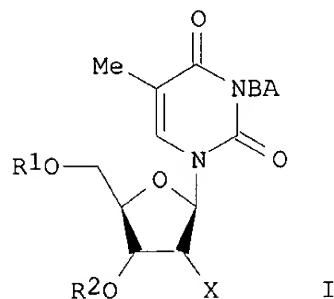
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 2003088374	A2	20030325	JP 2001-279240	20010914
PRIORITY APPLN. INFO.:			JP 2001-279240	20010914

GI



AB Thymidine derivs. having an intercalator introduced at N3 position of thymine base represented by (I) (A = intercalator, B = linker, X = H or -OY where Y = lower alkyl group which may be substituted, R1 and R2 = H, protective group or substituted phosphino), and oligonucleotides contg. them, are disclosed. The presence of 3'-O-[(2-cyanoethoxy)(diisopropylamino)phosphino]-5'-O-dimethoxytrityl-N3-[2-(anthraquinone-2-carboxyamino)ethyl] thymidine (chem. compd. 1:ant) ODNs was found to effectively stabilize duplex and triplex formation.

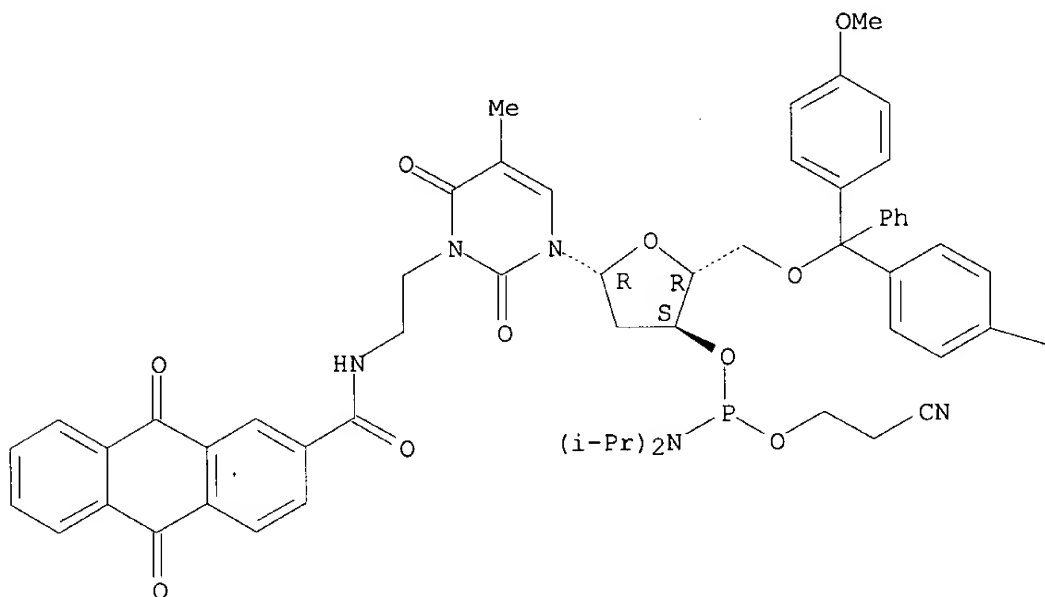
IT 501912-34-1P



(thymidine derivs. having an intercalator at N3 position of thymine base and use in antisense oligonucleotides)

Thymidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-3-[2-[[ (9,10-dihydro-9,10-dioxo-2-anthracenyl)carbonyl]amino]ethyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

 $\text{—OMe}$ 

TITLE: Versatile Strategy for Oligonucleotide Derivatization.  
Introduction of Lanthanide(III) Chelates to  
Oligonucleotides

CORPORATE SOURCE: PerkinElmer Life Sciences Wallac Oy, Turku, FIN-20101,

SOURCE: Finland  
 Organic Letters (2001), 3(16), 2473-2476  
 CODEN: ORLEF7; ISSN: 1523-7060  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 135:242452

AB Novel nucleosidic phosphoramidite blocks were synthesized by a Mitsunobu reaction between 2'-deoxy-5'-O-(4,4'-**dimethoxytrityl**)uridine and a primary alc. contg. a conjugate group in its structure (a protected functional group, an org. dye, or a precursor of a lanthanide(III) chelate) followed by phosphitylation. They were used in machine-assisted DNA synthesis in the std. manner. A slightly modified deprotection procedure was used for the prepn. of oligonucleotide conjugates tethered to lanthanide(III) chelates. For the latter application one non-nucleosidic block was also synthesized.

IT **358978-81-1P 358978-82-2P 358978-83-3P 358978-84-4P**

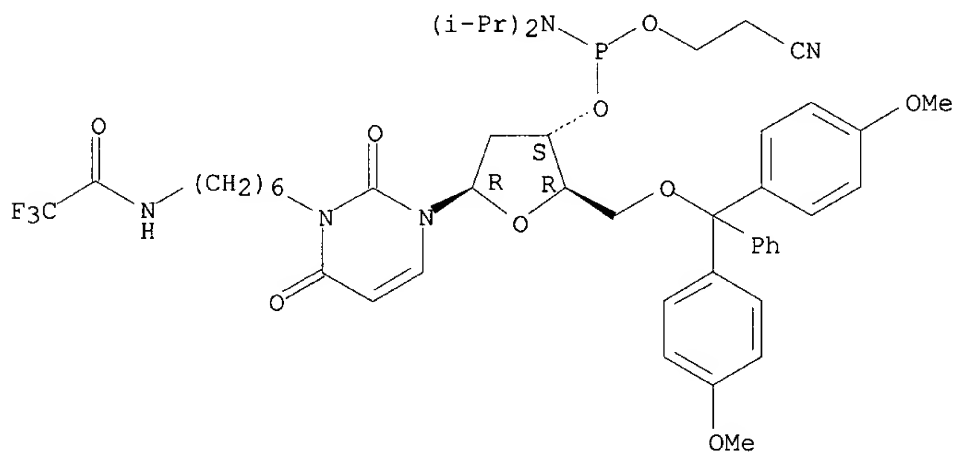
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(versatile strategy for oligonucleotide derivatization introduction of lanthanide chelates to oligonucleotides)

RN 358978-81-1 CAPLUS

CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-deoxy-3-[6-[(trifluoroacetyl)amino]hexyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

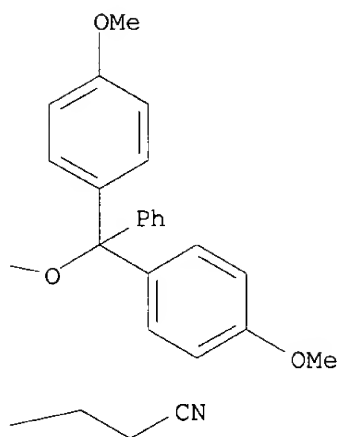
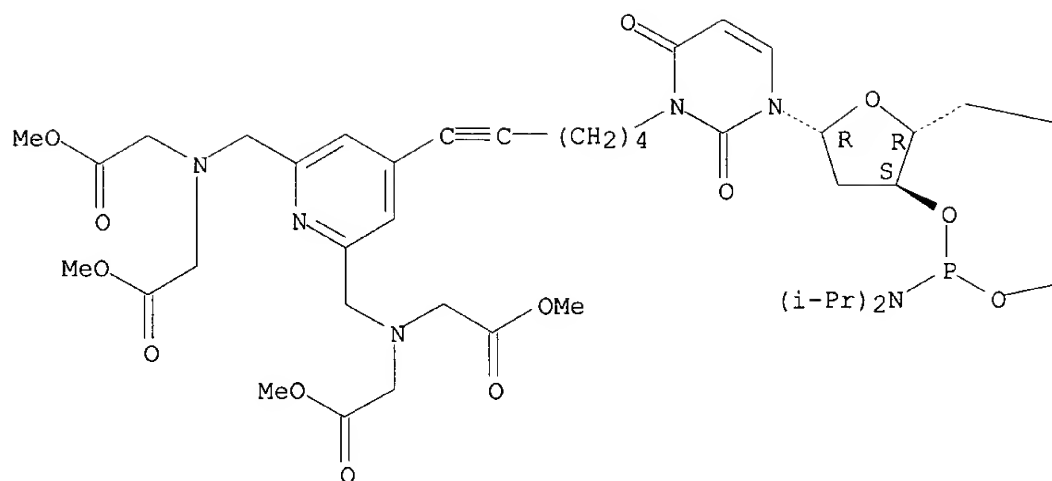
Absolute stereochemistry.



RN 358978-82-2 CAPLUS

CN Glycine, N,N'-[[4-[6-[3-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-3-O-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-deoxy-.beta.-D-erythro-pentofuranosyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]-2,6-pyridinediyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

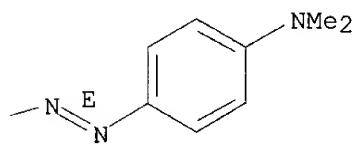
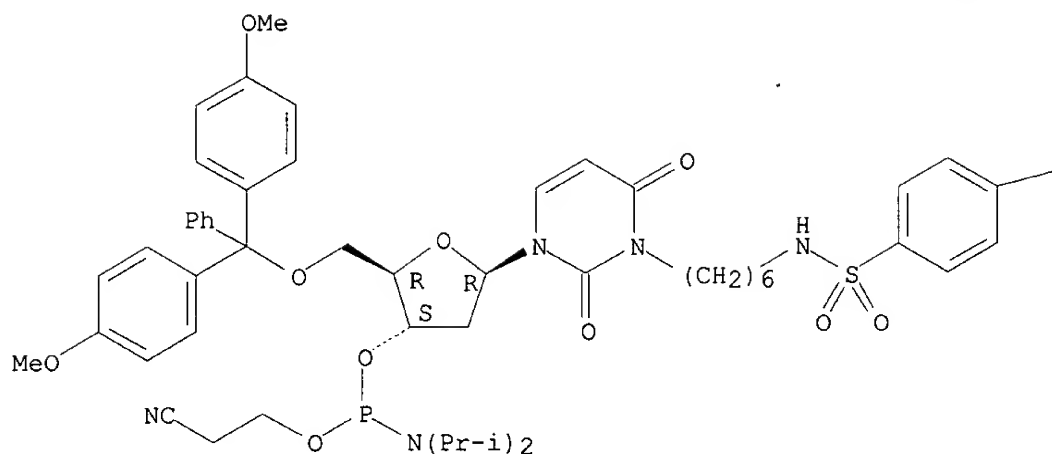


RN 358978-83-3 CAPLUS

CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-deoxy-3-[6-[[[4-[(1E)-[4-(dimethylamino)phenyl]azo]phenyl]sulfonyl]amino]hexyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

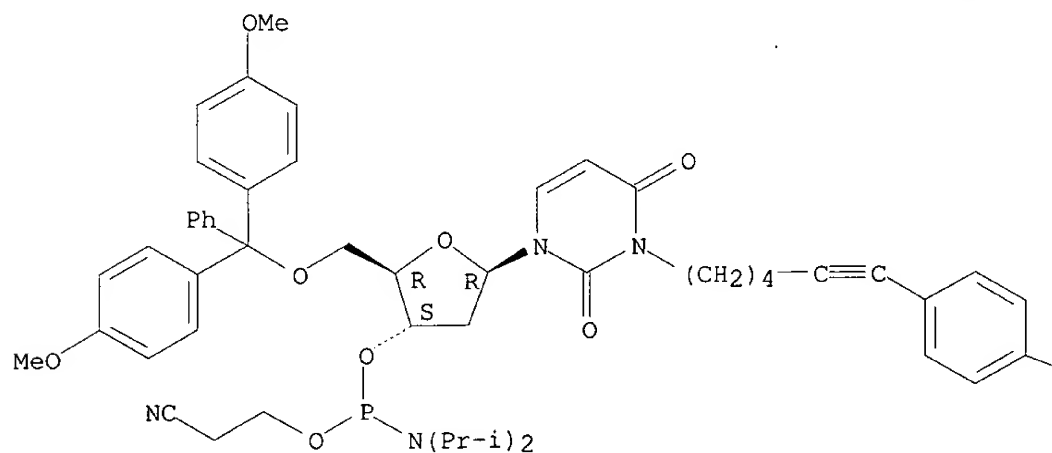
Double bond geometry as shown.

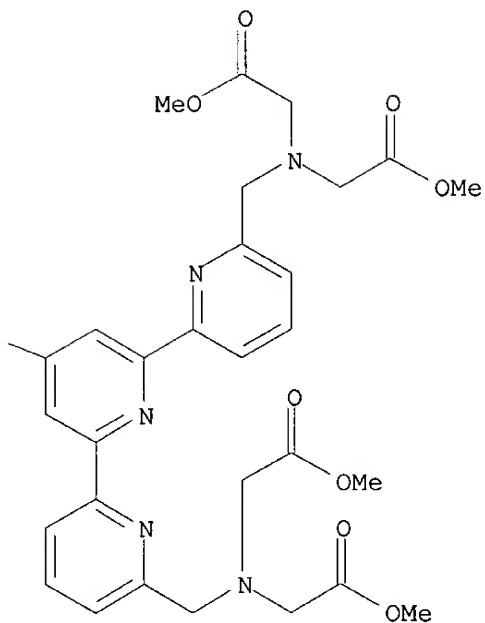


RN 358978-84-4 CAPLUS

CN Glycine, N,N'-[[4'-[4-[6-[3-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-3-O-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-deoxy-.beta.-D-erythro-pentofuranosyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

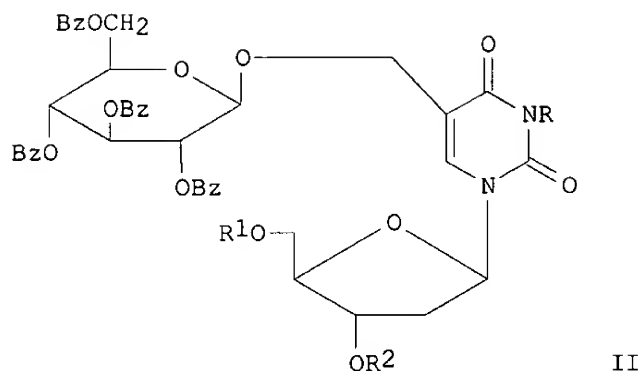
Absolute stereochemistry.





REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1999:559569 CAPLUS  
 DOCUMENT NUMBER: 131:257798  
 TITLE: Synthesis of oligodeoxynucleotides containing  
 5-(.beta.-D-glucopyranosyloxymethyl)-2'-deoxyuridine,  
 a modified nucleoside in the DNA of Trypanosoma brucei  
 AUTHOR(S): De Kort, Martin; Ebrahimi, Edwin; Wijsman, Eric R.;  
 Van der Marel, Gijs A.; Van Boom, Jacques H.  
 CORPORATE SOURCE: Leiden Institute Chemistry, Gorlaeus Laboratories,  
 Univ. Leiden, Leiden, 2300 RA, Neth.  
 SOURCE: European Journal of Organic Chemistry (1999), (9),  
 2337-2344  
 CODEN: EJOCFK; ISSN: 1434-193X  
 PUBLISHER: Wiley-VCH Verlag GmbH  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 131:257798  
 GI



AB The synthesis of the recently discovered modified DNA base 5-(.beta.-D-glucopyranosyloxymethyl)-2'-deoxyuridine (.beta.-dJ) is described. Me<sub>3</sub>SiO<sub>3</sub>SCF<sub>3</sub>-mediated .beta.-glucosylation of a 5-(hydroxymethyl)-2'-deoxyuridine (5-HMdU) deriv., obtained in 20% yield from 2'-deoxyuridine, with 2,3,4,6-tetra-O-benzoyl-.alpha.-D-glucopyranosyl trichloroacetimidate (I) gave dimer II [R = H; R<sub>1</sub>R<sub>2</sub> = Si(CHMe<sub>2</sub>)<sub>2</sub>OSi(CHMe<sub>2</sub>)<sub>2</sub>] in 47% yield. On the other hand, condensation of I with a N3-(pivaloyloxymethyl)-protected deriv., readily available from thymidine in 48% yield, afforded the fully protected nucleoside II (R = CH<sub>2</sub>O<sub>2</sub>CMe<sub>3</sub>; R<sub>1</sub>, R<sub>2</sub> = SiMe<sub>2</sub>CMe<sub>3</sub>) in 96% yield. The latter compd. was converted into phosphoramidite II {R = CH<sub>2</sub>O<sub>2</sub>CMe<sub>3</sub>, R<sub>1</sub> = 4,4'-**dimethoxytrityl**, R<sub>2</sub> = P[O(CH<sub>2</sub>)<sub>2</sub>CN]N(CHMe<sub>2</sub>)<sub>2</sub>}, which was applied in the automated solid-phase synthesis of several biol. interesting .beta.-dJ-contg. DNA fragments.

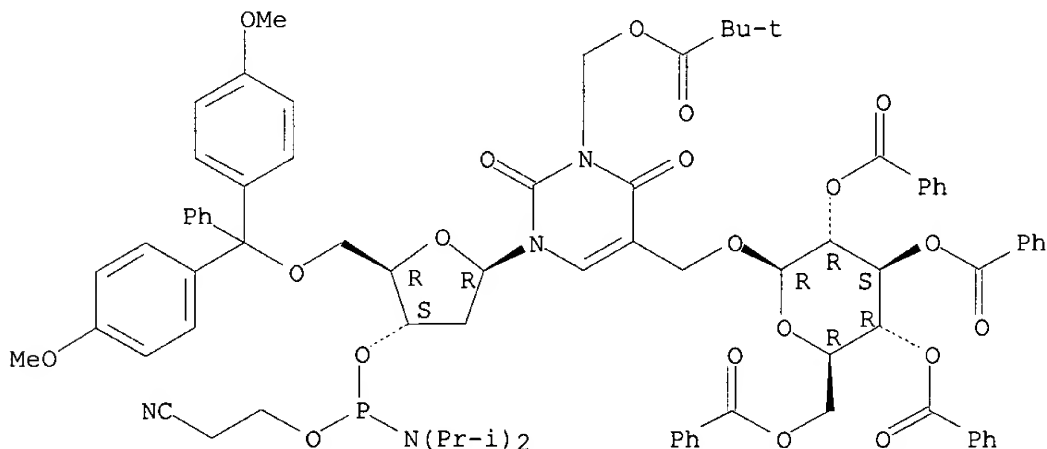
IT **244631-58-1P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of (glucopyranosyloxymethyl)deoxyuridine-contg. oligodeoxynucleotides)

RN 244631-58-1 CAPLUS

CN Thymidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-3-[(2,2-dimethyl-1-oxopropoxy)methyl]-.alpha.-[(2,3,4,6-tetra-O-benzoyl-.beta.-D-glucopyranosyl)oxy]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



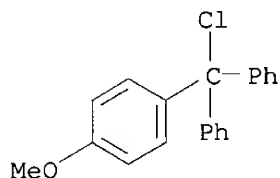
REFERENCE COUNT:

36

THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN  
 RN 14470-28-1 REGISTRY  
 CN Benzene, 1-(chlorodiphenylmethyl)-4-methoxy- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Anisole, p-(chlorodiphenylmethyl)- (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN (p-Anisyl)diphenylmethyl chloride  
 CN 1-(Chlorodiphenylmethyl)-4-methoxybenzene  
 CN 4-Anisyl(chloro)diphenylmethane  
 CN 4-Methoxytriphenylmethyl chloride  
 CN **4-Methoxytrityl chloride**  
 CN 4-Monomethoxytrityl chloride  
 CN Mono-p-methoxytrityl chloride  
 CN NSC 54121  
 CN p-(Chlorodiphenylmethyl)anisole  
 CN p-Anisylchlorodiphenylmethane  
 CN p-Methoxytrityl chloride  
 MF C20 H17 Cl O  
 LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,  
 CHEMINFORMRX, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, SYNTHLINE,  
 TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

273 REFERENCES IN FILE CA (1937 TO DATE)  
 8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 273 REFERENCES IN FILE CAPLUS (1937 TO DATE)  
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)